Supporting Information

Heterogeneous distribution of dye-labelled biomineralizaiton proteins in calcite crystals

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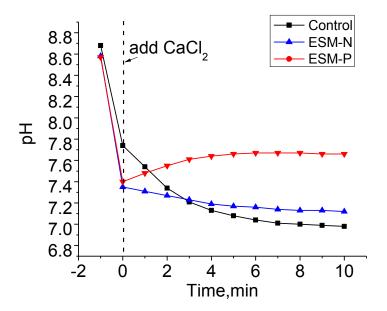


Figure S1. Inhibition of calcium carbonate precipitation assay The protein solution (200 μ L, ~25 μ g•mL⁻¹) was mixed with 10 mL of 40 mM NaHCO₃, pH 8.5. After the addition of 10 mL of 40 mM CaCl₂ to the mixture, the reaction was

monitored by recording the pH changes in the solutions per minute for 10 min. For the control, the protein solution was replaced with 200 μL DI water.

Table S1. The XRD parameter of different samples

Sample	FWHM (°)	Diffraction angle (2θ)
Control	0.194	29.330
ESM-P	0.215	29.424
ESM-N	0.198	29.325

Note: FWHM= full width at half maximum